

**Table S18 Trend analysis considering radon concentrations and gamma-ray dose-rates**

Model includes radon concentration, daily gamma-ray dose-rate and Quintile of Carstairs index of deprivation

ICCC3	Diagnostic Grouping	Number of Cases	Number of Controls	Relative Risk					
				Radon			Gamma		
				RR <sup>a</sup>	95% CI	p	RR <sup>b</sup>	95% CI	p
11	Lymphoid Leukaemia	7267	9571	1.05	0.88 - 1.25	0.60	1.14	0.97 - 1.34	0.12
12	Acute Myeloid Leukaemia	1316	1737	0.68	0.44 - 1.07	0.10	1.07	0.73 - 1.57	0.74
13-15	Other Leukaemia	475	604	0.93	0.52 - 1.66	0.81	1.59	0.86 - 2.94	0.14
11-15	Total Leukaemia	9058	11912	0.98	0.83 - 1.14	0.76	1.15	0.99 - 1.33	0.06
21	Hodgkin's disease	939	1388	1.10	0.63 - 1.91	0.73	1.23	0.78 - 1.92	0.37
22	Non-Hodgkin Lymphoma	983	1302	1.58	0.88 - 2.82	0.13	1.16	0.72 - 1.88	0.54
21-25	Total Lymphoma	2319	3274	1.31	0.92 - 1.86	0.13	1.01	0.76 - 1.35	0.93
11,22	Lymphoid Leukaemia + NHL	8250	10873	1.08	0.92 - 1.28	0.35	1.14	0.98 - 1.33	0.10
11-15, 22	Total Leukaemia + NHL	10041	13214	1.01	0.87 - 1.17	0.92	1.15	1.00 - 1.32	0.05
31-36	Brain/CNS (including Benign)	6585	8997	1.14	0.94 - 1.37	0.18	1.08	0.91 - 1.28	0.38
41-122	Other malignant tumours	9485	12610	0.95	0.81 - 1.11	0.49	0.92	0.80 - 1.06	0.25
21-122	Not Leukaemia	18389	24881	1.05	0.94 - 1.17	0.42	0.98	0.89 - 1.09	0.77
11-122	Total Childhood Cancer	27447	36793	1.02	0.93 - 1.12	0.64	1.04	0.95 - 1.13	0.41

<sup>a</sup>RR for each 10<sup>2</sup> Bq/m<sup>3</sup> increase in radon concentration<sup>b</sup>RR for each µGy per day increase in gamma-ray dose-rate